What Is Claimed Is:

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- 1. A mutein of human basic fibroblast growth factor, or a biologically active peptide thereof, comprising the substitution of a neutral and/or hydrophobic amino acid for one or more of the following:
 - (a) Glutamate 89; or
 - (b) Aspartate 101; or
 - (c) Leucine 137.
- 2. The mutein of claim 1 which comprises the substitution of a hydrophobic amino acid for Glu 89.
- 3. The mutein of claim 1 which comprises the substitution of a hydrophobic amino acid for Asp 101.
 - 4. The mutein of claim 1 which comprises the substitution of a hydrophobic amino acid for Leu ¹³⁷.
- 5. The mutein of claim 1 which comprises the substitution of a neutral amino acid for Glu 89.
 - 6. The mutein of claim 1 which comprises the substitution of a neutral amino acid for Asp 101.
 - 7. The mutein of claim 1 which comprises the substitution of a neutral amino acid for Leu 137.
 - 8. The mutein of claim 1 wherein a neutral amino acid is defined as alanine and a hydrophobic amino acid is defined as tyrosine.
 - 9. The mutein of claim 1 which is human basic fibroblast growth factor [Ala 89].

- 10. The mutein of claim 1 which is human basic fibroblast growth factor [Ala 101].
- 11. The mutein of claim 1 which is human basic fibroblast growth factor [Ala 137].
- 12. The mutein of claim 1 which is human basic fibroblast growth factor [Ala^{89, 101}].

- 13. The mutein of claim 1 which is human basic fibroblast growth factor [Ala 89, 137].
- 14. The mutein of claim 1 which is human basic fibroblast growth factor [Ala 101, 137].
 - 15. The mutein of claim 1 which is human basic fibroblast growth factor [Ala 89, 101, 137].
 - 16. The mutein of claim 1 which is human basic fibroblast growth factor [Tyr 89].
- 17. The mutein of claim 1 which is human basic fibroblast growth factor [Tyr 101].
 - 18. The mutein of claim 1 which is human basic fibroblast growth factor [Tyr ¹³⁷].
- The mutein of claim 1 which is human basic fibroblast growth factor [Tyr 89, 101].

- 20. The mutein of claim 1 which is human basic fibroblast growth factor [Tyr 89, 137].
- 21. The mutein of claim 1 which is human basic fibroblast growth factor [Tyr 101, 137].
- 5 22. The mutein of claim 1 which is human basic fibroblast growth factor [Tyr 89, 101, 137].
 - 23. A polynucleotide encoding the mutein of claim 1.
 - 24. The polynucleotide of claim 23 which is DNA.
 - 25. The polynucleotide of claim 23 which is genomic DNA.
 - 26. The polynucleotide of claim 23 which is a cDNA.
 - 27. The polynucleotide of claim 23 which is RNA.
 - 28. A vector containing the DNA of claim 25.

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- 29. A vector containing the DNA of claim 26.
- 30. A vector containing the RNA of claim 27.
- 31. A host cell comprising the vector of claim 28.
- 32. A host cell comprising the vector of claim 29.
- 33. A host cell comprising the vector of claim 30.
- 34. A process for producing a polypeptide comprising expressing from the host cell of claim 32 the polypeptide encoded by said DNA.

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A process for producing a polypeptide comprising expressing from

	the host cell o	f claim	33 the polypeptide encoded by said DNA.	
	36.	A pro	cess for producing the vector of claim 28 which comprises:	
		(a)	inserting the polynucleotide of claim 25 into the vector; and	
5		(b)	selecting and propagating said vector in a host cell.	
	37.	A process for producing the vector of claim 29 which comprises:		
		(a)	inserting the polynucleotide of claim 26 into the vector; and	
		(b)	selecting and propagating said vector in a host cell.	
	38.	A pro	ocess for producing the vector of claim 30 which comprises:	
10		(a)	creating a recombinant RNA molecule containing the RNA	
	sequence of	claim 2	7; and	
		(b)	selecting and propagating said vector in a host cell.	
	39.	A me	ethod of stimulating cell division which comprises:	
		(a)	contacting cells with an effective amount of the mutein of	
15	claim 1 in vitro; or			
		(b)	contacting cells with an effective amount of the mutein of	
	claim 1 in vi	ivo.		
	40.	A pl	narmacologic composition useful for stimulating cell division	
	comprising	ng the following:		
20	•	(a)	An effective amount of the human basic fibroblast growth	
	factor mute	in of cl	aim 1; and	
		(b)	An acceptable pharmaceutical carrier.	
	41.	Αn	nethod of healing a wound comprising contacting said wound	
	with an effe	ective a	mount of the mutein of claim 1.	

- 42. A method of treating ischemia comprising contacting cells with an effective amount of the mutein of claim 1.
- 43. A method of treating peripheral vascular disease comprising contacting cells with an effective amount of the mutein of claim 1.
- 44. A method of treating a neural injury comprising contacting cells with an effective amount of the mutein of claim 1.

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- 45. A method of treating a gastric ulcer comprising contacting cells with an effective amount of the mutein of claim 1.
- 46. A method of treating a duodenal ulcer comprising contacting cells with an effective amount of the mutein of claim 1.
- 47. A method of treating heart disease comprising contacting cells with an effective amount of the mutein of claim 1.